Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims.

- 1. (original) An isolated polynucleotide comprising a member selected from the group consisting of:
- (a) a polynucleotide encoding the polypeptide comprising amino acid 1 to amino acid 142 of SEQ ID NO:2;
- (b) a polynucleotide capable of hybridizing to and which is at least 70% identical to the polynucleotide of (a); and
 - (c) a polynucleotide fragment of the polynucleotide of (a) or (b).2-14. (cancelled)
- 15. (original) A polypeptide selected from the group consisting of: (i) a polypeptide having the deduced amino acid sequence of SEQ ID NO:2 and fragments, analogs and derivatives thereof and (ii) a polypeptide encoded by the DNA of ATCC PECEIVED Deposit No. 75514 and fragments, analogs and derivatives of said polypeptide.
 - 16. (cancelled) TECH CENTER 1600/2900
 - 17. (original) An antibody against the polypeptide of claim 15.
 - 18. (original) A compound which inhibits the polypeptide of claim 15.
 - 19. (original) A compound which activates the polypeptide of claim 15.

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 20-21. (cancelled)
- 22. (original) The method of claim 20, wherein the polypeptide is administered by providing to the patient DNA encoding said polypeptide and expressing said polypeptide in vivo.
- 23. (original) A method for the treatment of a patient having need to inhibit HMF comprising: administering to the patient a therapeutically effective amount of the compound of claim 18.

- 24. (original) A process for identifying compounds active as agonists or antagonists to HMF comprising:
- (a) combining a compound to be screened, the polypeptide of claim 15 and a reaction mixture containing cells under conditions where the cells are normally stimulated by said polypeptide, said reaction mixture containing a label incorporated into the cells as they proliferate; and
- (b) determining the extent of proliferation of the cells to identify if the compound is an effective agonist or antagonist.
- 25. (original) A process for diagnosing a disease or the susceptibility to a disease related to the underexpression of the polypeptide of claim 15 comprising:

 detecting in a sample derived from a host a nutation in the nucleic acid sequence of claim 1.
 - 26. (cancelled)
- 27. (new) A method for the treatment of a patient having need of HMF, comprising administering to the patient a therapeutically effective amount of a polypeptide selected from the group consisting of:
 - (a) a polypeptide comprising residues 1 to 142 of SEQ ID NO:2;
 - (b) a polypeptide comprising residues 2 to 142 of SEQ ID NO:2;
- (c) a polypeptide comprising the amino acid sequence of the polypeptide encoded by the human cDNA contained in ATCC® Deposit No. 75514; and
- (d) a polypeptide comprising the amino acid sequence of the mature polypeptide encoded by the human cDNA contained in ATCC® Deposit No. 75514.
 - 28. (new) The method of claim 27, wherein the polypeptide is (a).
- 29. (new) The method of claim 28, wherein the polypeptide is administered to treat leukemia.
- 30. (new) The method of claim 28, wherein the polypeptide is administered to treat blood-related disorders.

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- 31. (new) The method of claim 28, wherein the polypeptide is administered to stimulate differentiation and proliferation of cells of hematopoietic origin.
- 32. (new) The method of claim 28, wherein the polypeptide is administered to stimulate proliferation of cells of stromal origin.
- 33. (new) The method of claim 28, wherein the polypeptide is administered to promote the removal of malignant cells.
- 34. (new) The method of claim 28, wherein the polypeptide is administered to stimulate differentiation and proliferation of CD4+ or CD8+ T-cells.
- 35. (new) The method of claim 28, wherein the polypeptide is administered to stimulate differentiation and proliferation of thymocytes.
 - 36. (new) The method of claim 27, wherein the polypeptide is (b).
- 37. (new) The method of claim 36, wherein the polypeptide is administered to treat leukemia.
- 38. (new) The method of claim 36, wherein the polypeptide is administered to treat blood-related disorders.
- 39. (new) The method of claim 36, wherein the polypeptide is administered to stimulate differentiation and proliferation of cells of hematopoietic origin.
- 40. (new) The method of claim 36, wherein the polypeptide is administered to stimulate proliferation of cells of stromal origin.
- 41. (new) The method of claim 36, wherein the polypeptide is administered to promote the removal of malignant cells.
- 42. (new) The method of claim 36, wherein the polypeptide is administered to stimulate differentiation and proliferation of CD4+ or CD8+ T-cells.
- 43. (new) The method of claim 36, wherein the polypeptide is administered to stimulate differentiation and proliferation of thymocytes.

Appl. No.: 10/004,832 4 Docket No. PF105P1D2

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- 44. (new) The method of claim 27, wherein the polypeptide is (c).
- 45. (new) The method of claim 44, wherein the polypeptide is administered to treat leukemia.
- 46. (new) The method of claim 44, wherein the polypeptide is administered to treat blood-related disorders.
- 47. (new) The method of claim 44, wherein the polypeptide is administered to stimulate differentiation and proliferation of cells of hematopoietic origin.
- 48. (new) The method of claim 44, wherein the polypeptide is administered to stimulate proliferation of cells of stromal origin.
- 49. (new) The method of claim 44, wherein the polypeptide is administered to promote the removal of malignant cells.
- 50. (new) The method of claim 44, wherein the polypeptide is administered to stimulate differentiation and proliferation of CD4+ or CD8+ T-cells.
- 51. (new) The method of claim 44, wherein the polypeptide is administered to stimulate differentiation and proliferation of thymocytes.
 - 52. (new) The method of claim 27, wherein the polypeptide is (d).
- 53. (new) The method of claim 52, wherein the polypeptide is administered to treat leukemia.
- 54. (new) The method of claim 52, wherein the polypeptide is administered to treat blood-related disorders.
- 55. (new) The method of claim 52, wherein the polypeptide is administered to stimulate differentiation and proliferation of cells of hematopoietic origin.
- 56. (new) The method of claim 52, wherein the polypeptide is administered to stimulate proliferation of cells of stromal origin.

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57. (new) The method of claim 52, wherein the polypeptide is administered to promote the removal of malignant cells.

- 58. (new) The method of claim 52, wherein the polypeptide is administered to stimulate differentiation and proliferation of CD4+ or CD8+ T-cells.
- 59. (new) The method of claim 52, wherein the polypeptide is administered to stimulate differentiation and proliferation of thymocytes.